

## CLAIM AMENDMENTS

1           1. (Original) A heating element for igniting a pyrotechnic  
2 charge comprising  
3 a base body, a structured strip shaped resistance layer on said  
4 base body, and contact fields overlapping said resistance layer at  
5 ends thereof for applying a current pulse to the heating element,  
6 wherein the heating element has a mass of  $1.0 \times 10^{-9}$  kg to  $4.0 \times 10^{-9}$   
7 kg, a specific resistance of  $1 \times 10^{-6}$   $\Omega$ m to  $2 \times 10^{-6}$   $\Omega$ m and a specific  
8 heat capacity of 100 W/(kg.K) to 400 W/(kg.K).

1           2. (Original) The heating element defined in claim 1  
2 wherein the heating element has a cross sectional area of  $3.5 \times 10^{-10}$   
3  $\text{m}^2$  to  $7.0 \times 10^{-10}$   $\text{m}^2$ .

1           3. (Original) The heating element defined in claim 1  
2 wherein the resistance layer is composed of a sintered Ag/Pd  
3 resistance paste or a sintered Ag/Au/Pd resistance paste  
4 containing 30 to 50 mass% Ag and 35 to 50 mass % Pd, or a sintered  
5 Pt/W resistance paste containing 70 to 90 mass %% Pt and 5 to 20

6 mass% W.

1 4. (Original) The heating element defined in claim 1  
2 wherein the base body is composed of a high-temperature-resistant  
3 glass or glass-ceramic or ceramic with a thermal conductivity of  
4 at most 2 W/(m•K).

1 5. (Original) The heating element defined in claim 1  
2 wherein the base body is composed of a high-temperature-resistant  
3 glass or glass-ceramic or ceramic with a thermal conductivity of  
4 at most 3 W/(m•K) and a heat barrier is applied to said base body  
5 which is comprised of a glass or glass-ceramic layer of a  
6 thickness of 20 to 80  $\mu\text{m}$  and a thermal conductivity of at most 1.5  
7 W/(m•K).

1 6. (Original) The heating element defined in claim 1  
2 wherein the contact fields are composed of sintered AgPd or AgPt  
3 thick-layer conductor paste with Pd or Pt proportions between 1  
4 and 10 mass%.

1           7. (Currently amended) A heating element for igniting a  
2 pyrotechnic charge comprising a base body, a structured strip  
3 shaped resistance layer on said base body, and contact fields  
4 overlapping said resistance layer at ends thereof for applying a  
5 current pulse to the heating element, wherein the heating element  
6 has a mass of  $1.0 \times 10^{-9}$  kg to  $4.0 \times 10^{-9}$  kg, a specific resistance of  
7  $1 \times 10^{-6} \Omega\text{m}$  to  $2 \times 10^{-6} \Omega\text{m}$  and a specific heat capacity of  $100 \text{ W}/(\text{kg}\cdot\text{K})$   
8 to  $400 \text{ W}/(\text{kg}\cdot\text{K})$ . ~~The heating element defined in claim 1 wherein~~

9                           the heating element ~~[[has]]~~ having a cross  
10 sectional area of  $3.5 \times 10^{-10} \text{ m}^2$  to  $7.0 \times 10^{-10} \text{ m}^2$ ,

11                           the resistance layer ~~[[is]]~~ being composed of a  
12 sintered Ag/Pd resistance paste or a sintered Ag/Au/Pd resistance  
13 paste containing 30 to 50 mass% Ag and 35 to 50 mass % Pd, or a  
14 sintered Pt/W resistance paste containing 70 to 90 mass %% Pt and  
15 5 to 20 mass% W,

16                           the base body is composed of a high-temperature-  
17 resistant glass or glass-ceramic or ceramic with a thermal  
18 conductivity of at most  $2 \text{ W}/(\text{m}\cdot\text{K})$ , and the contact fields are  
19 composed of sintered AgPd or AgPt thick-layer conductor paste  
20 with Pd or Pt proportions between 1 and 10 mass%.

1           8. (Currently amended) A heating element for igniting a  
2 pyrotechnic charge comprising  
3 a base body, a structured strip shaped resistance layer  
4 on said base body, and contact fields overlapping said resistance  
5 layer at ends thereof for applying a current pulse to the heating  
6 element, wherein the heating element has a mass of  $1.0 \times 10^{-9}$  kg to  
7  $4.0 \times 10^{-9}$  kg, a specific resistance of  $1 \times 10^{-6} \Omega\text{m}$  to  $2 \times 10^{-6} \Omega\text{m}$  and a  
8 specific heat capacity of 100 W/(kg.K) to 400 W/(kg.K), The  
9 ~~heating element defined in claim 1 wherein~~

10                   the heating element ~~[[has]]~~ having a cross  
11 sectional area of  $3.5 \times 10^{-10} \text{ m}^2$  to  $7.0 \times 10^{-10} \text{ m}^2$ ,

12                   the resistance layer ~~[[is]]~~ being composed of  
13 a sintered Ag/Pd resistance paste or a sintered Ag/Au/Pd  
14 resistance paste containing 30 to 50 mass% Ag and 35 to 50 mass %  
15 Pd, or a sintered Pt/W resistance paste containing 70 to 90  
16 mass % Pt and 5 to 20 mass% W,

17                   the base body ~~[[is]]~~ being composed of a high-  
18 temperature-resistant glass or glass-ceramic or ceramic with a  
19 thermal conductivity of at most 3 W/(m.K) ~~[[and]]~~

20                   a heat barrier ~~[[is]]~~ being applied to said  
21   base body which is comprised of a glass or glass-ceramic layer of  
22   a thickness of 20 to 80  $\mu\text{m}$  and a thermal conductivity of at most  
23   1.5 W/(m $\cdot$ K), and  
24                   the contact fields ~~[[are]]~~ being composed of  
25   sintered AgPd or AgPt thick-layer conductor paste with Pd or Pt  
26   proportions between 1 and 10 mass%.

Claims 9 to 13 (cancelled).